AMENDMENTS TO THE CLAIMS

Please amend the claims as indicated below.

1-20 (Canceled).

21. (Currently Amended) A composition comprising a reaction product comprising two or more ~~repeating~~monomer units ~~derived from a positionally isomeric~~ diethyloctanediol monomer, the reaction product and having a molecular weight polydispersity Mw/Mn of from 1.13 to 2010, and the two or more monomer units being derived from a positionally isomeric diethyloctanediol monomer having a structure defined by a linear eight carbon chain, two ethyl groups and two hydroxyl groups, wherein the two ethyl groups are in at least one of the following substitution patterns: 2,3; 2,4; 2,5; 2,6; 2,7; 3,4; 3,5; 3,6; or 4,5; and the two hydroxyl groups are in at least one of the following substitution patterns: 1,2; 1,3; 1,4; 1,5; 1,6; 1,7; 1,8; 2,3; 2,4; 2,5; 2,6; 2,7; 2,8; 3,4; 3,5; 3,6; 3,7; 3,8; 4,5; 4,6; 4,7; 4,8; 5,6; 5,7; 5,8; 6,7; 6,8; or 7,8.

22. (Canceled)

23. (Currently Amended) The composition of claim ~~22~~21, wherein the positionally isomeric diethyloctanediol is a 2,4-diethyloctanediol.

24. (Canceled)

25. (Currently Amended) The composition of claim ~~24~~21, wherein the positionally isomeric diethyloctanediol is a diethyloctane-1,5-diol.

26. (Currently Amended) The composition of claim ~~25~~21, wherein the positionally isomeric diethyloctanediol is a 2,4-diethyloctane-1,5-diol.

27. (Previously Presented) The composition of claim 21, wherein the reaction product is at least one of a polyaddition reaction product or a polycondensation reaction product.

28. (Previously Presented) The composition of claim 27, wherein the reaction product comprises at least one of a polyether, a polyester, a polycarbonate, a polyurethane, a polyurea, a polyamide, a polyimide, an ether copolymer, an ester copolymer, a carbonate copolymer, a urethane copolymer, a urea copolymer, an amide copolymer, or an imide copolymer.

29. (Previously Presented) The composition of claim 28, wherein the reaction product comprises at least one of a polyester, a polyurethane, a polyester-co-polyether, a polyester-co-polycarbonate, a polyester-co-polyurethane, a polyester-co-polyamide, a polyester-co-polyurea, or a polyester-co-polyimide.

30. (Previously Presented) The composition of claim 21, wherein the reaction product has a structure that is at least one of linear, branched, block, comb, random, core/shell, or crosslinked microparticles.

31. (Previously Presented) The composition of claim 21, wherein the reaction product comprises at least one of

i) functional groups that undergo crosslinking reactions with complementary functional groups present in at least one of the reaction products themselves and in separate compounds, or

ii) functional groups, which on exposure to actinic radiation, react with at least one of one another and with other groups.

32. (Currently Amended) The composition of claim 21, wherein the reaction products areis grafted with one or more olefinically unsaturated monomers.

33. (Previously Presented) The composition of claim 21, wherein the composition is one of a molding compound, an adhesive, a coating material, or a paint.

34. (Previously Presented) The composition of claim 21, wherein the composition is one of a molding, a film, a fiber, an adhesive film, or a coating.

35. (Previously Presented) A method comprising applying the composition of claim 21 to a substrate.

36. (Previously Presented) The substrate prepared by the method of claim 35.

37. (Previously Presented) The method of claim 35, wherein the substrate is one of a motor vehicle body, an industrial component, an electrical component, a coil, a package, or furniture.

38 - 41. (Canceled)

42. (New) A composition comprising a reaction product comprising two or more monomer units, the reaction product having a molecular weight polydispersity Mw/Mn of from 1.3 to 10, and the two or more monomer units being derived from a positionally isomeric diethyloctanediol monomer that is one of a 2,4-diethyloctanediol or a diethyloctane-1,5-diol.

43. (New) The composition of claim 42 wherein the monomer is 2,4-diethyloctane-1,5-diol.